

### ABSTRACT OF THE DISCLOSURE

A thin film made of a cobalt-based oxide represented by  $\text{YBaCo}_2\text{O}_{5.5+x}$  ( $-0.5 < x < 0.05$ ) is used as a resistor material for a bolometer. Provided is also an infrared sensor having a microbridge structure and using the cobalt-based oxide thin film. The temperature coefficient of the electric resistance thereof can be made large.